

**Thursday, March 26, 2009**  
**POSTER SESSION II: LUNAR DATABASES AND DATA RESTORATION**  
**6:30 p.m. Town Center Exhibit Area**

Archinal B. Lunar Geodesy and Cartography Working Group

[\*Activities of the NASA LPRP Lunar Geodesy and Cartography Working Group\*](#) [#2095]

We describe the purpose, operation, activities, and future plans of the NASA Lunar Precursor Robotic Program Lunar Geodesy and Cartography Working Group. New standards/recommendations and the need to geodetically control lunar datasets are examined.

Gaddis L. Becker T. Weller L. Hare T. Isbell C.

[\*Lunar Orbiter Digital Frame Mosaics: Ready for Prime Time\*](#) [#2437]

This abstract announces the availability of Lunar Orbiter (LO) projected and cosmetically processed frame mosaics. Frames from medium- and high-resolution cameras from LO missions III, IV, and V are available via the Lunar Orbiter Frame Viewer web tool at USGS.

Williams D. R. Schultz A. B. Hills H. K. Guinness E. A. Lowman P. D. Taylor P. T.

[\*Restoration of Apollo Data by the PDS Lunar Data Node\*](#) [#1991]

The Lunar Data Node (LDN) has been formed to put relevant, scientifically important Apollo data into accessible digital form for use by researchers and mission planners. We will report on progress made since last year and plans for future data restorations.

Broxton M. J. Moratto Z. M. Nefian A. Bunte M. Robinson M. S.

[\*Preliminary Stereo Reconstruction from Apollo 15 Metric Camera Imagery\*](#) [#2282]

We present preliminary results from automated stereo processing of 70 image pairs from the Apollo 15 Metric Camera. Geo-registration of these data is discussed, as well as a new algorithm for improved sub-pixel stereo matching.

McClanahan T. P. Evans L. G. Starr R. D. Mitrofanov I.

[\*Fast Ray Tracing of Lunar Digital Elevation Models\*](#) [#2092]

Methods for optimizing ray-tracing processes for radiation analysis of digital elevation models (DEM)'s. Point-vector methods are demonstrated using Clementine DEM to determine degree of illumination as a function for large-scale DEM analysis, complex orbital ephemeris.

Lee E. M. Gaddis L. R. Weller L. Richie J. O. Becker T. Shinaman J. Rosiek M. R. Archinal B. A.

[\*A New Clementine Basemap of the Moon\*](#) [#2445]

The new basemap of the Moon based on ULCN2005 will be distributed through USGS Map-A-Planet web site (<http://www.mapaplanet.org>). The image geometry was verified for accuracy, and radiometric and photometric corrections applied and mosaicked.

Losiak A. Wilhelms D. E. Byrne C. J. Thaisen K. Weider S. Z. Kohout T. O'Sullivan K. Kring D. A.

[\*A New Lunar Impact Crater Database\*](#) [#1532]

The aim of this abstract is to describe a new database of lunar impact craters which integrates information concerning the locations and ages of craters, as well as various measured and calculated physical characteristics.